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Thesis Title: Wind Speed Modeling And Forecasting Using Fuzzy Systems And Calculating Wind Units Reliability	Date:
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Student Name: Mohammad Ali Jafari  Student Number: 84202376  Program of Study: MS  Field of Study: Power Systems  Thesis Advisor: Dr. Ali Abbaspoor  Thesis Co-Advisor : Dr. Fotuhi  Thesis Consultant: -----  Second Student: -----  Keywords:  Distributed Generation, Wind Speed, Reliability ,Fuzzy Logic, Fuzzy Time Series	Abstract:  Renewable energy sources, especially wind turbine generators, are considered as important generation alternatives in electric power systems due to their non-exhausted nature and benign environmental effects. Wind is a highly variable energy source, and therefore, system planning for wind delivery is very different from conventional transmission planning. Wind turbines output energy is related to wind speed that depends on many parameters such as temperature, pressure differences and the terrain. This is why it is one of the most difficult parameters to forecast. So far many methods are introduced for predicting wind speed that the most common methods like ARMA and ARIMA are based on Time Series Method. Also some intelligence techniques such as Neural Networks and Fuzzy Logic Method are used. In this thesis a new method that is based on both fuzzy logic and time series have introduced and compared to ARMA time series method. Simulations shows that this method can be a powerful tool for this purpose and have an acceptable accuracy compared to ARMA time Series method. Also this method is used to evaluate the reliability of a simple wind turbine system.
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